LESSON MAKER PRO

Dots and Hops

Show number sentences with dots and number lines.

GRADE 2 · 2.A.2.1

2.A.2.1 "Use objects and number lines to represent number sentences."

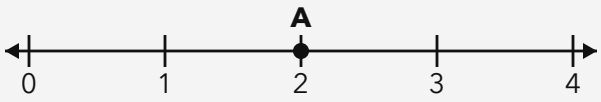
NAME _____ DATE _____

SHOW WHAT HAPPENS

Count dots to show objects. On a number line, start at the first number. Hop right to add or left to take away.

WORKED EXAMPLE

I have 2 shells and find 2 more. Show 2 + 2 = ____ on the number line.



1. Start at 2.
2. Hop right 2 spaces.
3. Land on 4.

Answer: 2 + 2 = 4

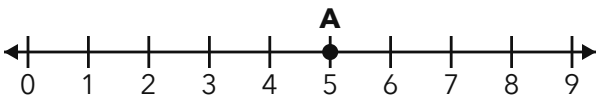
PRACTICE 5 problems

1 Each dot is one button. Ruby has these buttons and gets 1 more. Write a number sentence with ___ for the total.

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ANSWER _____

2 Lia has 5 beads and gets 3 more. Start at A and draw 3 hops right. Fill in 5 + 3 = ___.



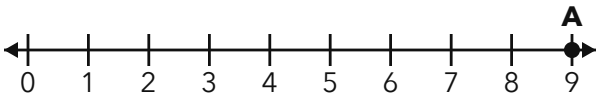
ANSWER _____

3 Each dot is one toy car. Cross out the 3 cars that roll away. Fill in 8 - 3 = ___.

●●●●●●●●

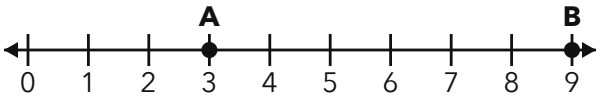
ANSWER _____

4 Noah has 9 marbles and gives 1 away. Start at A and draw 1 hop left. Fill in 9 - 1 = ___.



ANSWER _____

5 A bug starts at A and hops right to B. Count the hops. Fill in 3 + ___ = 9.



ANSWER _____

APPLY IT Show your work

1 Kai has 7 toy trains. His friend gives him 3 more. Start at A and draw hops to show the new trains. Write a number sentence with ___ for the total.



ANSWER _____

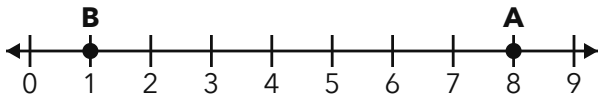
2 Each dot is one orange slice. There are 9 slices, and 3 are eaten. Cross out the eaten slices. Write a number sentence with ___ for the slices left.



ANSWER _____

CHALLENGE One step up

Maya has 8 toy cars. Some roll away, and 1 is left. Start at A and hop left to B. Fill in 8 - ___ = 1. Tell how you know.



WORK SPACE AND ANSWER

ANSWER KEY

Dots and Hops

GRADE 2 · 2.A.2.1

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Each dot is one button. Ruby has these buttons and gets 1 more. Write a number sentence with ___ for the total.	**7 + 1 = 8**
2	Lia has 5 beads and gets 3 more. Start at A and draw 3 hops right. Fill in 5 + 3 = ___.	**8**
3	Each dot is one toy car. Cross out the 3 cars that roll away. Fill in 8 - 3 = ___.	**5**
4	Noah has 9 marbles and gives 1 away. Start at A and draw 1 hop left. Fill in 9 - 1 = ___.	**8**
5	A bug starts at A and hops right to B. Count the hops. Fill in 3 + ___ = 9.	**6**

PART 2 · APPLY IT

1. **7 + 3 = 10** Start at 7 and hop right 3 spaces to reach 10.
2. **9 - 3 = 6** Cross out 3 of the 9 dots. Count the 6 dots left.

CHALLENGE

8 - 7 = 1. It takes 7 hops left to get from 8 to 1.

Accept correctly drawn hops or crossed-out dots that match each number sentence. For the challenge, accept any clear explanation that counts 7 spaces from 8 back to 1.